

L Number	Hits	Search Text	DB	Time stamp
1	5185	part near feeder	USPAT; US-P PUB; EPO; JP ; DERWENT; IBM_TDB	2003/05/05 08:31
2	33	part near feeder and main adj frame	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:32
3	1	part near feeder and main adj frame and vinyl and separation and recovering and unit	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:39
4	1105	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:41
5	79	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:46
6	78	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and 256/\$.ccis.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:47
7	84	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and 29/\$.ccis.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:57
8	9	("5700127" "5901829" "5947258" "5975835" "6112905" "6135699" "6163146" "6248967" "6354792").PN.	USPAT	2003/05/05 08:48
9	4	("4760924" "5190431" "5326218" "5772387").PN.	USPAT	2003/05/05 08:49
10	5	("4760924" "4763811" "4778063" "5350269" "5588797").PN.	USPAT	2003/05/05 08:50
11	5	("4037756" "4293998" "4401234" "4586251" "4599026").PN.	USPAT	2003/05/05 08:51
12	7	("2453077" "3291338" "3308977" "3332560" "3625384" "4351108" "4401234").PN.	USPAT	2003/05/05 08:52

13	1	(414/798, 221/103 , 221/11 , 221/197 , 29/809 , 414/413 , 414/414 , 414/421 , 414/929).ccls. and (part near feeder)	USPAT; US-PGPUB; EP ; JPO; DERWENT; IBM_TDB	2003/05/05 08:58
14	0	(414/798, 221/103 , 221/11 , 221/197 , 29/809 , 414/413 , 414/414 , 414/421 , 414/929).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and 256/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:59
15	0	(414/798, 221/103 , 221/11 , 221/197 , 29/809 , 414/413 , 414/414 , 414/421 , 414/929).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:59
16	1	(156/362, 156/363).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:59
17	1	(156/362, 156/363, 29/740, 29/743).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 09:00
18	1	(156/362, 156/363, 29/740, 29/743, 221/25).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 09:00



L Number	Hits	Search Text	DB	Time stamp
1	161	part near feeder and mounting near apparatus	USPAT; US-P PUB; EP ; JPO; DERWENT; IBM_TDB	2003/05/05 13:03
2	15	part near feeder and mounting near apparatus and 414/\$.ccis.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:10
3	19	("3279044" "4515507" "4606117" "4794689" "4807356" "4860438" "4951388" "4979286" "5058263" "5060366" "5070598" "5136776" "5255429" "5290134" "5421696" "5491888" "5544411" "5864944" "6000123").PN.	USPAT	2003/05/05 12:06
4	19	("3279044" "4515507" "4606117" "4794689" "4807356" "4860438" "4951388" "4979286" "5058263" "5060366" "5070598" "5136776" "5255429" "5290134" "5421696" "5491888" "5544411" "5864944" "6000123").PN.	USPAT	2003/05/05 12:08
5	55	part near feeder and mounting near apparatus and 29/\$.ccis.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:19
6	7	("2650699" "2722309" "3524541" "3815734" "4298120" "4359157" "4627532").PN.	USPAT	2003/05/05 12:18
7	4	part near feeder and mounting near apparatus and 156/\$.ccis.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:29
8	6	("4575995" "4606117" "4740136" "4768915" "4869393" "4952113").PN.	USPAT	2003/05/05 12:21
9	9	("2521957" "2720994" "2889123" "3270973" "3446409" "3531057" "4437232" "4607774" "4610083").PN.	USPAT	2003/05/05 12:25
10	7	("4069931" "4253906" "4274196" "4307832" "4327482" "4472218" "4476626").PN.	USPAT	2003/05/05 12:26
11	20	electronic adj part near feed r and mounting near apparatus	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:30

12	10	("1128861" "1670006" "1786867" "3161338" "3203608" "3750921" "4789418" "5163595" "5342474" "5399060").PN.	USPAT	2003/05/05 12:31
13	3	("4437129" "4735341" "4869393").PN.	USPAT	2003/05/05 12:32
14	21	4735341.URPN.	USPAT	2003/05/05 12:32
15	7	("4620655" "4735341" "4740136" "4768915" "4923089" "5020959" "5191693").PN.	USPAT	2003/05/05 12:33
16	13	4620655.URPN.	USPAT	2003/05/05 12:34
17	0	9300887.URPN.	USPAT	2003/05/05 12:37
18	0	part near feeder and mounting near apparatus and disc and vinyl	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 13:12
19	1884	29/739/.cccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 13:20
20	7	("5299902" "5456001" "5539976" "5553376" "5713125" "5828310" "5873691").PN.	USPAT	2003/05/05 13:16
21	4	("4889229" "4914808" "5018936" "5235164").PN.	USPAT	2003/05/05 13:16
22	87	29/739/.cccls. and feeder and component	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 13:20
-	5185	part near feeder	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 11:55
-	33	part near feeder and main adj frame	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:32
-	1	part near feeder and main adj frame and vinyl and separation and recovering and unit	USPAT; US-PGPUB; EPO; JP ; DERWENT; IBM_TDB	2003/05/05 08:39

-	0	(414/798, 221/103 , 221/11 , 221/197 , 29/809 , 414/413 , 414/414 , 414/421 , 414/929).ccls. and (Hwang near Ji Hyun.in. and Kim near D Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder))	USPAT; US-PGPUB; EP ; JP ; DERWENT; IBM_TDB	2003/05/05 08:59
-	1	(156/362, 156/363).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:59
-	1	(156/362, 156/363, 29/740, 29/743).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 09:00
-	1	(156/362, 156/363, 29/740, 29/743, 221/25).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 09:00

	Title	Current OR	Current XRef
1	Parts arranging method and parts mounting apparatus	361/600	
2	Electronic parts-feeding tray feeder and electronic parts-feeding method	414/331.1	414/222.01; 414/286; 414/331.11; 414/416.08; 414/806; 414/811
3	Electronic-parts mounting apparatus	29/740	29/721; 29/739; 29/741; 29/743; 29/DIG.44; 414/737
4	Manual electronic-part mounting apparatus and method	156/565	156/297; 156/299; 156/573
5	Method of and apparatus for mounting electronic parts	29/836	29/709; 29/710; 29/740; 29/743; 29/834; 700/108; 700/121
6	Manual electronic-part mounting method	427/96	427/208.6; 427/208.8; 427/261; 427/407.1; 427/430.1
7	Bulk feeder	221/163	221/167; 221/200; 221/254
8	Electronic-parts mounting apparatus	29/740	29/721; 29/739

	Retrieval Classif	Inventor
1		Ohuchi, Atsushi et al.
2		Yamauchi, Jun et al.
3		Kinoshita, Yoichi et al.
4		Sugiyama, Osamu
5		Tsubouchi, Yuzo et al.
6		Sugiyama, Osamu
7		Saho, Hidehiro et al.
8		Munezane, Takashi et al.

	Title	Current R	Current XRef
9	Manual Electronic-part mounting apparatus	156/556	118/216; 118/256; 118/500; 156/578; 29/740; 29/840
10	Method and apparatus for mounting parts with pick-up mistake detection and storage of mistake rate	29/833	29/407.04; 29/714; 29/721; 29/743; 29/759; 29/832; 29/834
11	Tape feeder with controlled feed motion	226/122	226/159; 226/164; 226/165
12	Method of and apparatus for mounting electronic parts on a board	438/15	438/14
13	Apparatus for mounting electronic parts and a method thereof	29/836	29/740; 29/741; 29/743; 29/DIG.44; 414/752.1
14	MOUNTING STRUCTURE OF PARTS FEEDER IN ELECTRONIC PARTS MOUNTING APPARATUS		
15	ELECTRONIC PARTS MOUNTING APPARATUS		
16	ELECTRONIC PARTS MOUNTING APPARATUS AND PARTS FEEDER		
17	ROTARY HEAD TYPE ELECTRONIC COMPONENT MOUNTING APPARATUS		29/739
18	Apparatus for mounting electronic components on circuit boards		

	Retrieval Classif	Inventor
9		Sugiyama, Osamu
10		Tsubouchi, Yuzo et al.
11		Kanai, Takeshi
12		Tsubouchi, Yuzo et al.
13		Kashiwagi, Yasuhiro et al.
14		SAHO, HIDEHIRO
15		TAGUCHI, KATSUHIKO et al.
16		HONDA, TAKAYUKI et al.
17		KOYAMA, MASAhide
18		KINOSHITA, YOICHI et al.

	Title	Current R	Current XRef
19	Electronic-parts mounting apparatus for automatically mounting e.g. parts on circuit board		
20	Mounting appts. for small size electronic parts - comprises feeder supplying PCB to X=Y table, parts feeder, and pneumatic rotating device which turns suction head		

	Retrieval Classif	Invent r
19		KINOSHITA, Y et al.
20		KIM, H et al.

	Title	Current R	Current XRef
1	Equipment and method for mounting electronic components	29/833	29/740; 29/741; 29/755; 29/759; 29/832
2	Tape type work conveying method and conveying apparatus	29/429	156/324; 156/344; 156/350; 156/351; 156/584; 198/347.3; 198/803.14; 29/426.3; 29/709; 29/714; 414/416.08; 414/811; 53/453
3	Apparatus and method for carrying substrate	29/729	
4	Method and apparatus for mounting electronic device	29/832	29/739; 29/743
5	Circuit board fixing table, circuit board fixing method and electronic component mounting apparatus	29/743	29/832; 414/226.04
6	Parts mounting method and parts mounting apparatus	29/832	29/740; 29/743
7	Automatic electronic parts mounting apparatus	29/740	29/739
8	Mounting apparatus of electronic components and mounting methods of the same	29/832	29/740; 29/834

	Retrieval Classif	Invent r
1		Shiota, Takayuki
2		Umetsu, Sachio
3		Ogimoto, Shinichi
4		Ogimoto, Shinichi
5		Miura, Izumi et al.
6		Kawase, Takeyuki et al.
7		Kyoutani, Takayoshi
8		Horigome, Naoyuki

	Title	Current R	Current XRef
9	Printed circuit board transferring apparatus of a surface mounter	29/740	29/743
10	Electronic component mounting method	29/832	198/465.1; 198/465.3; 198/817; 29/429; 29/430; 29/740; 29/741; 29/742; 29/784
11	Mounting apparatus of electronic components and mounting methods of the same	29/832	29/712; 29/721; 29/740; 29/743; 29/833
12	Component mounting apparatus with tray parts feeder	29/740	29/742; 414/331.14; 414/416.01; 414/416.03
13	Electronic-parts mounting apparatus	29/740	29/721; 29/739; 29/741; 29/743; 29/DIG.44; 414/737
14	Electronic component mounting apparatus	382/151	29/759
15	Method of and apparatus for mounting electronic parts	29/836	29/709; 29/710; 29/740; 29/743; 29/834; 700/108; 700/121
16	Apparatus for and method of mounting electronic parts	29/832	

	Retrieval Classif	Inventor
9		Hwang, Ji Hyun
10		Hidese, Wataru
11		Horigome, Naoyuki
12		Hiramoto, Koji et al.
13		Kinoshita, Yoichi et al.
14		Hachiya, Eiichi et al.
15		Tsubouchi, Yuzo et al.
16		Sakaguchi, Shinsuke

	Title	Current R	Current XRef
17	Electronic-parts mounting apparatus	29/740	29/721; 29/739
18	Method and apparatus for mounting parts with pick-up mistake detection and storage of mistake rate	29/833	29/407.04; 29/714; 29/721; 29/743; 29/759; 29/832; 29/834
19	Mounting apparatus of electronic components and mounting methods of the same	29/833	29/712; 29/721; 29/740; 29/743; 294/64.1; 356/152.2; 414/737; 414/749.3; 702/104; 702/94; 901/47
20	Line of electronic part mounting apparatuses and method for mounting electronic parts	29/832	29/740; 29/742; 29/836
21	Mounting apparatus having a two-dimensional linear motor	29/740	29/712; 29/742; 29/743; 29/744; 29/759; 72/446; 72/482.9
22	Apparatus for mounting electronic components	29/740	29/708; 29/709; 29/712; 29/742; 29/743; 294/64.1; 414/737

	Retrieval Classif	Inventor
17		Munezane, Takashi et al.
18		Tsubouchi, Yuzo et al.
19		Kashiwagi, Yasuhiro et al.
20		Higashi, Masayuki
21		Nomura, Hiroaki
22		Itoh, Hiroshi

	Title	Current R	Current XRef
23	Method and device for adjusting nozzle height for recognition in surface mounter	29/833	29/712; 29/743; 29/834; 29/DIG.44; 356/614; 414/730; 414/737; 901/40; 901/46
24	Elastic part holder for use in mounting apparatus	29/754	29/450; 29/785
25	Tool for surface mounting device head	29/743	29/740
26	Vibratory feeder trays and synchronous mass production apparatus for circuit board fabrication	29/740	198/763; 29/759; 29/821; 29/823
27	Electronic parts-mounting apparatus	29/740	29/741; 29/743; 294/64.1
28	Apparatus for mounting electronic parts and a method thereof	29/836	29/740; 29/741; 29/743; 29/DIG.44; 414/752.1
29	Automatic electronic parts-mounting apparatus	29/740	29/743; 29/DIG.44; 414/737
30	Parts mounting sequence determination method and apparatus	29/832	29/564.1; 29/739; 29/740; 29/742; 700/114
31	Electronic parts mounting apparatus	307/116	29/407.04; 29/720; 29/760
32	Electronic component feed system	29/740	206/714; 414/416.08

	Retrieval Classif	Inventor
23		Hanamura, Naoki
24		Ito, Takashi et al.
25		Yi, Yun Hyung
26		Ma, Abraham C. et al.
27		Nushiyama, Shuji et al.
28		Kashiwagi, Yasuhiro et al.
29		Kano, Yoshinori et al.
30		Tsukasaki, Hitoshi et al.
31		Shitanda, Motoshi et al.
32		Takahashi, Tetsuo et al.

	Title	Current R	Current XRef
33	Parts mounting apparatus	29/712	29/739; 29/743; 29/DIG.44
34	Assembling apparatus	29/739	221/25
35	Truck lid mounting apparatus	29/281.5	
36	Apparatus for mounting a balance weight on a tire wheel	29/705	29/281.1; 29/802; 29/818; 301/5.21; 73/458
37	Part inserting apparatus and method for use	29/838	140/105; 29/566.3; 29/741
38	Electronic component mounting apparatus	29/740	29/705; 29/720; 700/303; 702/97; 901/46
39	Apparatus for and method of automatically mounting electronic component on printed circuit board	29/833	221/289; 269/903; 29/740; 29/840
40	Method and apparatus for producing linear body with waterproof plug	29/854	29/235; 29/241; 29/433; 29/450; 29/759; 29/809
41	Electric parts mounting apparatus and electric parts mounting method	29/740	29/743; 29/759; 29/834; 294/64.1
42	Table driving apparatus	29/740	74/479.01
43	Cassette for storing a plurality of electronic component chips	206/723	220/350; 221/285; 221/306; 29/740; 29/809

	Retrieval Classif	Inventor
33		Izume, Takatomo et al.
34		Hirai, Hiroyuki et al.
35		Uesugi, Kyohei
36		Matumoto, Sigeru et al.
37		Aoki, Yasushi et al.
38		Toi, Hiroshi
39		Takahashi, Kuniaki et al.
40		Kato, Sanae
41		Nakayama, Susumu et al.
42		Isono, Tadao et al.
43		Yamamoto, Shinya et al.

	Title	Current R	Current XRef
44	Apparatus for mounting electric parts	29/740	209/573; 221/211; 221/277; 29/593; 29/759; 414/744.1
45	Cassette storing a plurality of electronic component chips including means for securing the cassette to a hopper	206/701	221/174; 221/186; 221/285; 221/306; 29/740
46	Circuit element mounting system and method	700/121	29/703; 29/709; 29/741; 716/19
47	Automatic tension spring mounting device	29/33K	198/430; 29/225; 29/227; 29/700; 29/822
48	Tension spring takeout device in an automatic tension spring mounting apparatus	29/809	198/430; 29/227; 414/226.01; 414/783
49	Apparatus for mounting chip type circuit elements on printed circuit boards	29/740	29/759; 29/840
50	Automatic mounting apparatus for chip components	29/740	29/759; 29/840
51	Mounting apparatus for leadless electronic parts	29/740	29/840

	Retrieval Classif	Inventor
44		Fujishiro, Keisuke
45		Hamuro, Mitsuro et al.
46		Takahashi, Tetsuo et al.
47		Yajima, Yutaka
48		Yajima, Yutaka
49		Harigane, Kotaro et al.
50		Watanabe, Yoshitsugu et al.
51		Fujita, Takayuki et al.

	Title	Current OR	Current XRef
52	Apparatus for mounting chip type circuit elements on printed circuit boards	156/538	156/539; 156/556; 156/566; 156/567; 156/584; 221/210; 221/211; 29/729; 29/738; 29/740; 29/743; 29/759; 29/799; 414/799
53	ROTARY HEAD TYPE ELECTRONIC COMPONENT MOUNTING APPARATUS		29/739
54	FRAME FEEDING DEVICE FOR SEMICONDUCTOR MOUNTING APPARATUS		29/25.01; 257/E21.499
55	Automatic electronic parts mounting apparatus.		29/832

	Retrieval Classif	Invent r
52		Harigane, Kotaro et al.
53		KOYAMA, MASAhide
54		TAKAHASHI, FUMIO
55		KANO, YOSHINORI et al.

L Number	Hits	Search Text	DB	Time stamp
1	161	part near feeder and mounting near apparatus	USPAT; US-P PUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 11:58
2	15	part near feeder and mounting near apparatus and 414/\$.ccis.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:10
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9	9	("2521957" "2720994" "2889123" "3270973" "3446409" "3531057" "4437232" "4607774" "4610083").PN.	USPAT	2003/05/05 12:25
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11	20	electronic adj part near feeder and mounting near apparatus	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:30

12	10	("1128861" "1670006" "1786867" "3161338" "3203608" "3750921" "4789418" "5163595" "5342474" "5399060").PN.	USPAT	2003/05/05 12:31
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16	13	4620655.URPN.	USPAT	2003/05/05 12:34
17	0	9300887.URPN.	USPAT	2003/05/05 12:37
-	5185	part near feeder	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 11:55
-	33	part near feeder and main adj frame	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:32
-	1	part near feeder and main adj frame and vinyl and separation and recovering and unit	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:39
-	1105	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:41
-	79	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:46
-	78	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and 256\$.ccis.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:47
-	84	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and 29\$.ccis.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:57

-	1	(156/362, 156/363, 29/740, 29/743).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feed r))	USPAT; US-P PUB; EP ; JP ; DERWENT; IBM_TDB	2003/05/05 09:00
-	1	(156/362, 156/363, 29/740, 29/743, 221/25).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 09:00

US-PAT-NO: 6370764

DOCUMENT-IDENTIFIER: US 6370764 B1

TITLE: Electronic-parts mounting apparatus

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

NAME			CITY
STATE	ZIP CODE	COUNTRY	
Kinoshita; Yoichi			Osaka
N/A	N/A	JP	
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N/A	N/A	JP	
Tanaka; Kunio			Osaka
N/A	N/A	JP	
Nakatsuka; Shigeki			Kyoto
N/A	N/A	JP	
Nagaya; Toshihiko			Osaka
N/A	N/A	JP	

INT-CL: [07] H05K003/30

US-CL-ISSUED: 29/740, 29/739 , 29/721 , 29/741 , 29/743
, 29/DIG.44
, 414/737

US-CL-CURRENT: 29/740, 29/721 , 29/739 , 29/741 , 29/743
, 29/DIG.44
, 414/737

FIELD-OF-SEARCH: 29/739-741; 29/832 ; 29/743 ; 29/DIG.44 ;
29/721 ; 29/759
; 414/737

REF-CITED:

	U.S. PATENT DOCUMENTS		
PAT-NO	ISSUE-DATE	PATENTEE-NAME	
	US-CL		
<u>3279044</u>	October 1966	Roper	
29/739	<u>N/A</u>		N/A

4515507		May 1985	<u>Asai</u> et al.
	414/226	N/A	N/A
<u>4606117</u>		August 1986	Takahashi et al.
	29/740	<u>N/A</u>	N/A
4794689		January 1989	<u>Seno</u> et al.
	29/740	N/A	N/A
<u>4807356</u>		February 1989	Maruyama et al.
	29/740	<u>N/A</u>	N/A
4860438		August 1989	<u>Chen</u>
	29/740	N/A	N/A
<u>4951388</u>		August 1990	Eguchi et al.
	29/832	<u>N/A</u>	N/A
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	29/740	N/A	N/A
<u>5058263</u>		October 1991	Corbeij et al.
	29/740	<u>N/A</u>	N/A
5060366		October 1991	<u>Asai</u> et al.
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<u>5070598</u>		December 1991	Itagaki et al.
	29/705	<u>N/A</u>	N/A
5136776		August 1992	<u>Yamagisawa</u>
	29/740	N/A	N/A
<u>5255429</u>		October 1993	Nishi et al.
	29/720	<u>N/A</u>	N/A
5290134		March 1994	<u>Baba</u>
	414/404	N/A	N/A
<u>5421696</u>		June 1995	Stephan et al.
	414/751	<u>N/A</u>	N/A
5491888		February 1996	<u>Otha</u> et al.
	N/A	N/A	N/A
<u>5544411</u>		August 1996	Kano et al.
	29/740	<u>N/A</u>	N/A
5864944		February 1999	<u>Morita</u> et al.
	N/A	N/A	N/A
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	29/740	<u>N/A</u>	N/A

FOREIGN-PAT-NO	FOREIGN PATENT	DOCUMENTS
US-CL	PUBN-DATE	COUNTRY
0664 665	July 1995	EP
0664 666	July 1995	EP

ART-UNIT: 3729

PRIMARY-EXAMINER: Vo; Peter

US-PAT-NO: 5865359

DOCUMENT-IDENTIFIER: US 5865359 A

TITLE: Tape feeder with controlled feed
motion

DATE-ISSUED: February 2, 1999

INVENTOR-INFORMATION:

NAME	CITY
STATE	ZIP CODE
COUNTRY	
Kanai; Takeshi	Gunma-ken
N/A	N/A
JP	

INT-CL: [06] B65H020/00

US-CL-ISSUED: 226/122, 226/159 , 226/164 , 226/165

US-CL-CURRENT: 226/122, 226/159 , 226/164 , 226/165

FIELD-OF-SEARCH: 226/122; 226/158 ; 226/159 ; 226/160 ;
226/162 ; 226/163
; 226/164 ; 226/165

REF-CITED:

PAT-NO	U.S. PATENT DOCUMENTS	ISSUE-DATE	PATENTEE-NAME
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<u>1128861</u>	February 1915	Fisher	
226/165	<u>N/A</u>	N/A	
1670006	May 1928	<u>Prym</u>	
226/165	N/A	N/A	
<u>1786867</u>	December 1930	Rosenthal	
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3161338	December 1964	<u>Grimm</u>	
226/163	N/A	N/A	
<u>3203608</u>	August 1965	Mogolis	
226/165	<u>N/A</u>	N/A	
3750921	August 1973	<u>Bundschuh</u>	
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<u>4789418</u>	December 1988	Rayl
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<u>5342474</u>	August 1994	Mohara et al.
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FOREIGN-PAT-NO	FOREIGN PATENT DOCUMENTS PUBN-DATE	COUNTRY
US-CL		
5-90786	September 1991	JP
226/122		
5-175687	July 1993	JP
0722553	January 1955	GB

ART-UNIT: 362

PRIMARY-EXAMINER: Marmor; Charles A.

ASSISTANT-EXAMINER: Kaness; Matthew A.